

IN THE CLAIMS

Please amend claims 48-50, and

add new claims 51-60 as follows:

Listing of Claims:

1. (Previously Presented) A device for conditioning, cleaning, and/or keeping clean at least one of a rotating roll and a circulating belt of a paper machine, comprising:

two doctors arranged behind one another in a roll and/or belt travel direction and spaced at a distance from one another;

the two doctors being assigned to a rotating roll;

the rotating roll comprising grooves and/or blind bores;

one of the two doctors being a front doctor that scrapes water off of the rotating roll;

another of the two doctors being a rear doctor that scrapes air off of the rotating roll;

an additional doctor being assigned to at least one felt that is guided around the rotating roll, the additional doctor being arranged upstream and at a distance from a take-on point; and

a low pressure suction device located near the additional doctor,

wherein an underpressure is hydrodynamically produced by at least one of the front doctor and the rear doctor.

2. (Previously Presented) The device in accordance with claim 1, wherein said two doctors are located before the take-on point at which the at least one felt is guided onto the rotating roll.

3. (Previously Presented) The device in accordance with claim 2, wherein the additional doctor is a boundary layer doctor positioned adjacent said at least one felt before the take-on point.

4. (Previously Presented) The device in accordance with claim 3, wherein the low-pressure suction device is arranged for suctioning a wedge-shaped opening formed at least by the rotating roll and said at least one felt.

5. (Previously Presented) The device in accordance with claim 3, wherein the distance between said boundary layer doctor and the take-on point is less than approximately 500 mm.

6. (Original) The device in accordance with claim 5, wherein said distance is less than about 400 mm.

7. (Original) The device in accordance with claim 5, wherein said distance is less than approximately 300 mm.

8. (Previously Presented) The device in accordance with claim 1, further comprising:
a press arranged before the rotating roll,
wherein the low pressure suction device is arranged for suctioning a space between
said press and the rotating roll.

9. (Previously Presented) The device in accordance with claim 1, wherein the rotating
roll comprises a suction felt guidance roll.

10. (Original) The device in accordance with claim 9, further comprising a first press
of a pressing section of a paper machine,
wherein said suction felt guidance roll is provided subsequently to said first press.

11. (Original) The device in accordance with claim 10, wherein said first press
comprises a roll press.

12. (Original) The device in accordance with claim 10, wherein said first press comprises an extended nip press.

13. (Original) The device in accordance with claim 10, further comprising a spray guard positioned between said suction felt guidance roll and said first press.

14. (Original) The device in accordance with claim 13, wherein said spray guard is arranged to extend substantially across a width of the machine.

15. (Previously Presented) The device in accordance with claim 1, further comprising at least one cleaning device acting on a surface of the rotating roll.

16. (Previously Presented) The device in accordance with claim 15, wherein said at least one cleaning device is positioned between said two doctors.

17. (Original) The device in accordance with claim 15, wherein said at least one cleaning device comprises at least one jet cleaning or spray device arranged to direct a pressurized medium at said surface.

18. (Original) The device in accordance with claim 17, wherein said pressurized medium comprises a fluid or air.

19. (Original) The device in accordance with claim 18, wherein said fluid comprises water.

20. (Original) The device in accordance with claim 15, wherein said at least one cleaning device comprises a combined blowing or spraying device and suction device.

21. (Original) The device in accordance with claim 15, wherein said at least one cleaning device comprises at least one rotatable spray head arranged to traverse crosswise to the travel direction and arranged to rotate around an axis.

22. (Original) The device in accordance with claim 15, wherein said at least one cleaning device emits a medium onto said surface under a pressure that is greater than approximately 20 bar.

23. (Original) The device in accordance with claim 22, wherein said medium is under pressure less than about 30 bar.

24. (Original) The device in accordance with claim 22, wherein said medium is under pressure less than about 25 bar.

25. (Original) The device in accordance with claim 15, wherein said at least one cleaning device comprises a spray head which is rotatable around an axis, said spray head including at least one nozzle which is inclined relative to said axis.

26. (Original) The device in accordance with claim 25, further comprising a vapor suctioning device,

wherein said spray head is assigned to said vapor suctioning device.

27. (Previously Presented) The device in accordance with claim 15, further comprising a housing which is open to the rotating roll,

wherein said at least one cleaning device is enclosed and/or surrounded by said housing.

28. (Previously Presented) The device in accordance with claim 27, wherein said housing is sealed off from said surface by said two doctors.

29. (Previously Presented) The device in accordance with claim 1, wherein the rotating roll is arranged to form a pressing nip, and said device further comprises a unit for evening out an amount of water supplied to said pressing nip.

30. (Previously Presented) The device in accordance with claim 29, wherein said evening out unit comprises one of said two doctors.

31. (Previously Presented) The device in accordance with claim 30, wherein the front doctor is arranged in front of the rear doctor relative to the travel direction.

32. (Previously Presented) The device in accordance with claim 29, wherein said evening out unit comprises a blowing device for blowing out the grooves and/or the blind bores in said surface with a pressurized medium.

33. (Original) The device in accordance with claim 32, wherein said pressurized medium is pressurized air.

34. (Original) The device in accordance with claim 29, wherein said evening out unit includes a suction device for suctioning water out of said surface.

35. (Original) The device in accordance with claim 29, wherein said evening out unit includes a combined blowing and suction device.

Claims 36-37 (Canceled).

38. (Previously Presented) The device in accordance with claim 1, wherein at least one of the front and rear doctors comprises a foil doctor arranged diagonally.

Claim 39 (Canceled).

40. (Previously Presented) The device in accordance with claim 1, wherein the fibrous material web comprises a paper or a cardboard web.

41. (Previously Presented) The device in accordance with claim 40, further comprising a blowing device for blowing out the grooves and/or the blind bores with a pressurized medium.

42. (Original) The device in accordance with claim 41, wherein said pressurized medium comprises pressurized air.

43. (Previously Presented) The device in accordance with claim 40, further comprising a suction device for suctioning water out of the grooves and/or the blind bores.

44. (Previously Presented) The device in accordance with claim 40, further comprising a combined blowing and suction device.

Claims 45-47 (Canceled).

48. (Currently Amended) A device for conditioning, cleaning, and/or keeping clean at least one of a rotating roll and a circulating belt of a paper machine, comprising:
at least two doctors arranged behind one another in a roll and/or belt travel direction and spaced at a distance from one another;
said at least two doctors being assigned to a rotating roll;
the rotating roll comprising grooves and/or blind bores;
one of the at least two doctors being a front doctor that scrapes water off of the rotating roll;
another of the at least two doctors being a rear doctor that scrapes air off of the rotating roll;
a housing that is open to the rotating roll;

a cleaning device arranged within the housing, wherein the cleaning device can impinge the roll surface with a medium under a pressure that is greater than approximately 20 bar and less than about 30 bar;

the front doctor being arranged on one edge of the housing and the rear doctor being arranged on another edge of the housing; and

a low-pressure suction device arranged to suction a wedge-shaped opening formed by the rotating roll and the circulating belt,

wherein an underpressure is hydrodynamically produced by at least one of the front doctor and the rear doctor.

49. (Currently Amended) A device for conditioning, cleaning, and/or keeping clean at least one of a rotating roll and a circulating belt of a paper machine, comprising:

at least two doctors arranged behind one another in a roll and/or belt travel direction and spaced at a distance from one another;

said at least two doctors being assigned to a suctioned rotating roll;

the suctioned rotating roll comprising grooves and/or blind bores;

one of the at least two doctors being a front doctor that scrapes water off of the rotating roll;

another of the at least two doctors being a rear doctor that scrapes air off of the

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rotating roll;

a housing that is open to the rotating roll;

a cleaning device arranged within the housing, wherein the cleaning device comprises a rotating spray head that can impinge the roll surface with a medium under a pressure that is greater than approximately 20 bar and less than about 30 bar;

the front doctor being arranged on one edge of the housing and the rear doctor being arranged on another edge of the housing; and

a low-pressure suction device arranged to suction a wedge-shaped opening formed by the rotating roll and the circulating belt,

wherein an underpressure is hydrodynamically produced by at least one of the front doctor and the rear doctor.

50. (Currently Amended) A device for conditioning, cleaning, and/or keeping clean at least one of a rotating roll and a circulating belt of a paper machine, comprising:

at least two doctors arranged behind one another in a roll and/or belt travel direction and spaced at a distance from one another;

said at least two doctors being assigned to a rotating roll;

the rotating roll comprising grooves and/or blind bores;

one of the at least two doctors being a front doctor that scrapes water off of the

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rotating roll;

another of the at least two doctors being a rear doctor that scrapes air off of the rotating roll;

a housing that is open to the rotating roll;

a cleaning device arranged in the housing for cleaning the rotating roll;

the cleaning device comprising a spray head with nozzles that can impinge the roll surface with a medium under a pressure that is greater than approximately 20 bar and less than about 30 bar;

the front doctor being arranged on one edge of the housing and the rear doctor being arranged on another edge of the housing; and

a low-pressure suction device arranged to suction a wedge-shaped opening formed by the rotating roll and the circulating belt,

wherein an underpressure is hydrodynamically produced by at least one of the front doctor and the rear doctor.

51. (New) A method of conditioning and/or cleaning at least one of a rotating roll and a circulating belt of a paper machine using the device of claim 50, the method comprising:

guiding the circulating belt with the rotating roll;

scraping water off the rotating roll with the front doctor;

cleaning the rotating roll with the cleaning device;
scraping air off the rotating roll with the rear doctor; and
suctioning the wedge-spaced opening with the low pressure suction device.

52. (New) A method of conditioning and/or cleaning at least one of a rotating roll and a circulating belt of a paper machine using the device of claim 50, the method comprising:

passing the circulating belt through a press nip;
guiding the circulating belt with the rotating roll;
scraping water off the rotating roll with the front doctor;
cleaning the rotating roll with the cleaning device;
scraping air off the rotating roll with the rear doctor; and
suctioning the wedge-spaced opening with the low pressure suction device,
wherein the passing occurs before the guiding.

53. (New) A method of conditioning and/or cleaning at least one of a rotating roll and a circulating belt of a paper machine using the device of claim 1, the method comprising:

guiding the at least one felt with the rotating roll;
scraping water off the rotating roll with the front doctor;
scraping air off the rotating roll with the rear doctor; and

suctioning a wedge-spaced opening that is formed by the at least one felt and the rotating roll with the low pressure suction device.

54. (New) A method of conditioning and/or cleaning at least one of a rotating roll and a circulating belt of a paper machine using the device of claim 1, the method comprising:

moving the at least one felt through a press nip;

guiding the at least one felt with the rotating roll;

scraping water off the rotating roll with the front doctor;

scraping air off the rotating roll with the rear doctor; and

suctioning a wedge-spaced opening that is formed by the at least one felt and the rotating roll with the low pressure suction device,

wherein the moving occurs before the guiding.

55. (New) A method of conditioning and/or cleaning at least one of a rotating roll and a circulating belt of a paper machine using the device of claim 1, the method comprising:

passing the at least one felt through a press nip;

moving the at least one felt past a boundary layer doctor;

guiding the at least one felt with the rotating roll;

scraping water off the rotating roll with the front doctor;

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scraping air off the rotating roll with the rear doctor; and
suctioning a wedge-spaced opening that is formed by the at least one felt and the
rotating roll with the low pressure suction device,
wherein the passing occurs before the moving and the moving occurs before the
guiding.

56. (New) A method of conditioning and/or cleaning at least one of a rotating roll and
a circulating belt of a paper machine using the device of claim 1, the method comprising:
passing the at least one felt through one of a roll press nip and an extended nip press;
moving the at least one felt past a boundary layer doctor;
guiding the at least one felt with the rotating roll;
scraping water off the rotating roll with the front doctor;
scraping air off the rotating roll with the rear doctor; and
suctioning a wedge-spaced opening that is formed by the at least one felt and the
rotating roll with the low pressure suction device,
wherein the passing occurs before the moving and the moving occurs before the
guiding.

57. (New) A method of conditioning and/or cleaning at least one of a rotating roll and a circulating belt of a paper machine using the device of claim 48, the method comprising:

- guiding the circulating belt with the rotating roll;
- scraping water off the rotating roll with the front doctor;
- cleaning the rotating roll with the cleaning device;
- scraping air off the rotating roll with the rear doctor; and
- suctioning the wedge-spaced opening with the low pressure suction device.

58. (New) A method of conditioning and/or cleaning at least one of a rotating roll and a circulating belt of a paper machine using the device of claim 48, the method comprising:

- passing the circulating belt through a press nip;
- guiding the circulating belt with the rotating roll;
- scraping water off the rotating roll with the front doctor;
- cleaning the rotating roll with the cleaning device;
- scraping air off the rotating roll with the rear doctor; and
- suctioning the wedge-spaced opening with the low pressure suction device,

wherein the passing occurs before the guiding.

59. (New) A method of conditioning and/or cleaning at least one of a rotating roll and a circulating belt of a paper machine using the device of claim 49, the method comprising:

- guiding the circulating belt with the rotating roll;
- scraping water off the rotating roll with the front doctor;
- cleaning the rotating roll with the cleaning device;
- scraping air off the rotating roll with the rear doctor; and
- suctioning the wedge-spaced opening with the low pressure suction device.

60. (New) A method of conditioning and/or cleaning at least one of a rotating roll and a circulating belt of a paper machine using the device of claim 49, the method comprising:

- passing the circulating belt through a press nip;
- guiding the circulating belt with the rotating roll;
- scraping water off the rotating roll with the front doctor;
- cleaning the rotating roll with the cleaning device;
- scraping air off the rotating roll with the rear doctor; and
- suctioning the wedge-spaced opening with the low pressure suction device,

wherein the passing occurs before the guiding.